

## ABSTRACT

A target specified range of a toner density is correctly set so that a toner density is consistently appropriately controlled.

5            If a specified range within which a measured toner density TD (%) should fall is set based on an expression (2) below using a volume average diameter  $D_{cav\_vol}$  ( $\mu m$ ) of a magnetic carrier and a volume average diameter  $D_{tav\_vol}$  ( $\mu m$ ) of a toner, the target specified range can be correctly set, thereby making it possible to consistently appropriately control the toner  
10 density.

$$TD \leq \{ \gamma_t \cdot V_t / N_t / (\gamma_c \cdot V_c) \} \times 100 \quad (2)$$